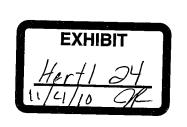
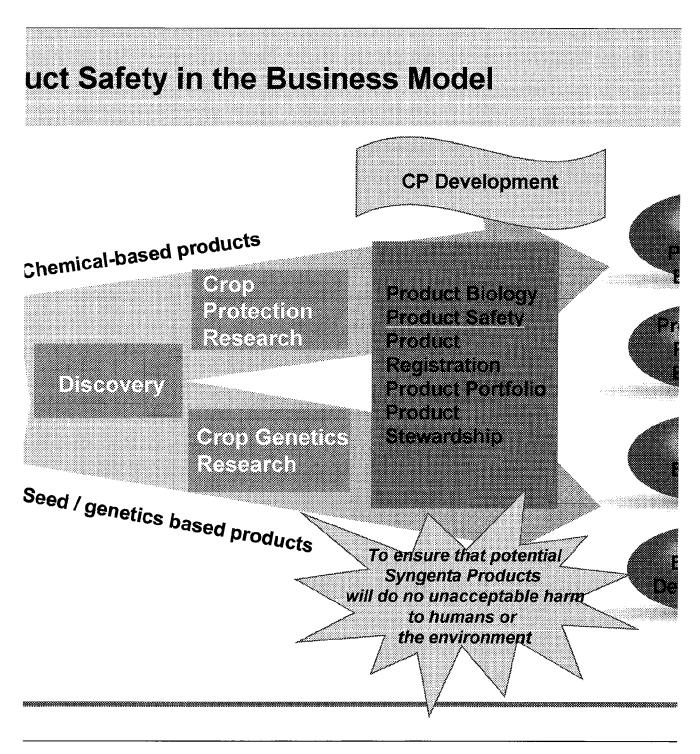


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Global Trends

Global Harmonization of Data Requirements

- Export of Regulatory "Intensity"
- Influencing
- Need to translate safety to real environments

Global Trade Food/Feed Safety

• Import tolerances (Residues / Traits)

Increased Activist Pressure

- Scientific Credibility / Communication
- Increasing Litigation

New Concerns

endocrine effects, endangered species, children's health, mixtures

Product Safety - Three Key Questions

What happens to our chemicals/traits when they are used?

We investigate how our products break down in biological systems (plants, animals, soil, aquatic ecosystems,...)

Where do they go?

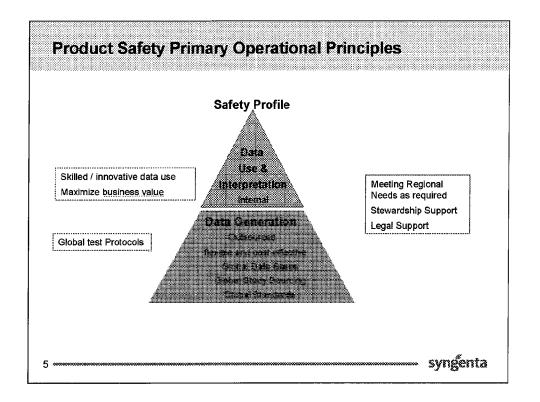
· We investigate how pesticides or metabolites move from the site of application to non target areas.

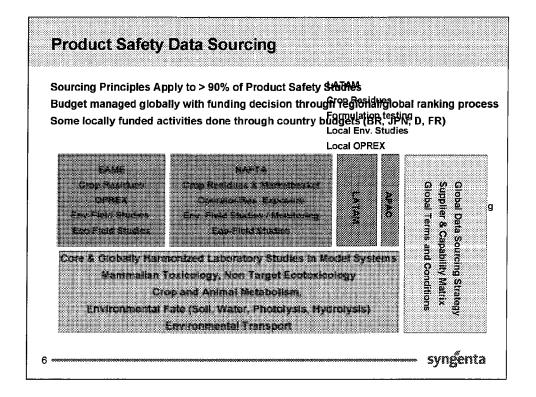
Do they cause any harm when they get there?

• We determine adverse effects and quantify risk to ensure that our products are safe for humans and the environment

New active ingredients New formulations, mixtures etc Re-registration and maintenance activities

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Product Safety Primary Organisational Principles

- Primary organisational division into regions
 GSO Product Safety Primarily Supports NAFTA, LATAM and Traits Global
- Strong global co-ordination
 - Optimised study programs & Core studies
 - Technical positions
 - Priorization/Budgets/Study Placement
- GSO Product Safety Staff will also provide
 - risk assessments
 - regulatory submissions
 - support for regulatory, stewardship and legal activities

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Product Safety Organisation

New Organisation is focused on:

- Sourcing data from external CROs
- Sourcing expertise from universities, institutes etc
- Data interpretation and risk assessment
- Small laboratory based product metabolism group
- Small residue method development
- Small laboratory based MoA (mode of toxicity) group
- Knowledge Management support
- Approximately 200 people

- EAME (JH, UK)

- 130

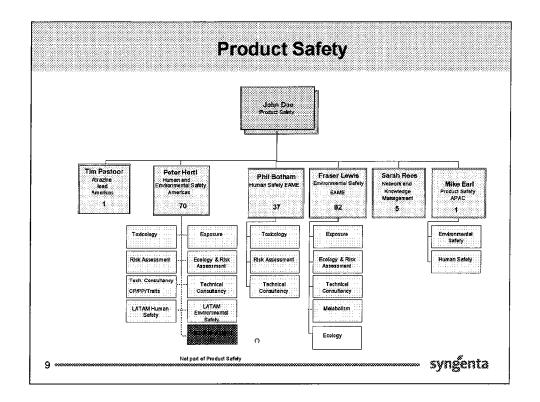
- NAFTA/LATAM (GSO, US)

- 65 + 20 in Tech Support

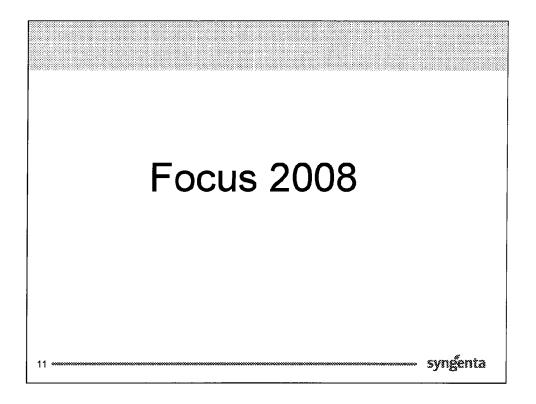
- APAC (Singapore)

- 1 (so far)

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Product Safety Challenges How can we create space to develop 5 New Als in 5 Years for 150 MM? How can we influence Regulatory Paradigms to be based on best science? How can we enhance our Credibility with all Stakeholders? Stakeholders? Stakeholders Communication Stakeholders syngenta



Strategy & Direction

- Contribute to scoping the global product safety package for 5 new Als & 1-MCP and deliver the regional part of the package in line with project and budget milestones.
 - 1-MCP target submission date 2009
 - 449 target submission date 2010
 - 524 target submission date 2010
 - 520 target submission date 2010/11
 - Galaxy target submission date 2011
 - DASH target submission date 2012
 - AMBI early stage Synthesis
 - HAMBRA early stage Synthesis
- Continue to develop and refine Product Safety Support model to LATAM and Traits and identify opportunities for efficiency gains and synergies, agree resources and actions.

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Science & Technology

- Ensure that the regional internal & CRO science and technology base remains at the level required to deliver current projects at maximum value.
- Gain access to internal and/or external capability to prepare for the high and medium priority science gaps identified:
 - Endocrine Disruption
 - Endangered Species
 - Biomonitoring
 - Allergenicity
 - Immunotoxicology
 - ToxCast
 - Science sourcing in LATAM/Mexico.

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Portfolio & Projects / Operational Excellence

- Deliver the portfolio of studies, risk assessments and expertise required to support CP, Traits, PP & LATAM
- Deliver key PLCM and Support Projects in line with project milestones and cost targets.
 - Atrazine Programs & SAPs (2)
 - Paraquat: Inteon, Legal support, Human Safety Research programs, LATAM Defense/support

Mesotrione: HTC Soybeans, event selection, Metabolism study, residue program, Turf label (Q1/09), DNT decision support (framework 4/08, Progress position on DNT Science requirements 12/08)

- Abamectin: SC Formulation MOR data
- Avicta: Brazil re-registration, DNT follow up
- Triazoles: New crop uses, USTTF, Conditions of Registration studies
- Growth Regulators: TXP Method, New uses MOR program
- Emamectin: Toxicology (RegTox), Tree nuts MOR results (EEE)
- DCI for Fomesafen, Fluazifop, , Phenoxycarb
- CA Pyrethroid review
- Chloroantrinipole mixtures submission 3/08

Capability & Culture

- Support Science policies development and related capability development and data/assessment generation for the following reg./sci. areas
 - Inerts: data gen
 - Endangetred Species: Litigation, Science Assessments for multiple products
 - Endocrine Disruptors: validation, test protocol and data support multiple products
 - Sprav Drift

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- Improve coordination of global and regional regulatory/science networks (TC/Function/Regulatory) through revised processes:
 - Establish TMT approach for ES projects
 - Establish Biotech-PS TMT
- Optimize feedback loop on budget / information between TC/function leads/ teams
- Increase PS input into LATAM project scoping
- Ensure that Product Safety opportunities identified through skill gap analysis are filled
- Develop and access talent through continued training, succession planning and strategic recruitment.

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Alignment - Cross-training/Development Capability & Culture Focus

Effective science communication (S. Wall)

- Training session
 - -Develop concept
 - Establish pilot

New hires (and development of all)

- PS F3 project implementation
 - -Fast start / mentoring
 - -Expanded experience / breadth

Workshops

- Spatial Technologies (Global workshop)
- Environmental Assessments (Global workshop)
- Human Safety Assessments (LATAM)
 - -Dietary/Op. Exp. -- LATAM
 - -Toxicology

Presentations at Professional Meetings and /or publications

- Process needed to develop a plan forecast needs and possible impact
- Proactive rather than reactive part of the goal setting (team leads)